

GENERAL INFORMATION

**Source Four LED** is the merging of the Source Four® and Desire® product lines. It offers the high quality optics and control of a Source Four with the grace and powerful colour control of Desire.

**Source Four LED Lustr+** luminaires are based on the x7 Color System™ utilizing six colours plus high-intensity white to achieve true, usable broad-spectrum colour. Rich vibrant colours as well as subtle theatrical tints are all possible with this colour changing fixture. Explore new opportunities by pairing with classic incandescent light from the legendary Source Four line of fixtures to provide maximum flexibility and range.

**Source Four LED Daylight** provides high-output non-variable white light with a 5600K colour temperature.

**Source Four LED Tungsten** provides non-variable white light with a 3000K colour temperature.

Lustr+, Daylight, and Tungsten light engines work with all Source Four lens tubes to deliver a high quality controllable beam of LED light. For the best results it is highly recommended that EDLT versions are used. Note: A special LED only version of the 50° EDLT lens tube is available.

**Source Four LED Studio HD** - See separate datasheet

ORDERING INFORMATION

**Source Four CE LED Light Engine with Shutter Barrel**  
(For use with fixed field lens tubes only)

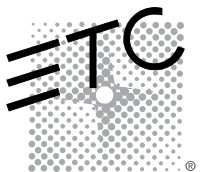
PART NO.	DESCRIPTION
7460A1251	Source Four LED Lustr+ w. shutter barrel, black
7460A1261	Source Four LED Tungsten w. shutter barrel, black
7460A1271	Source Four LED Daylight w. shutter barrel, black

**Source Four CE LED Light Engine - Body Only**  
(For use with zoom lens tubes and retrofit of existing tungsten fixtures)

PART NO.	DESCRIPTION
7460A1250	Source Four LED Lustr+ - body only, black
7460A1260	Source Four LED Tungsten - body only, black
7460A1270	Source Four LED Daylight - body only, black

Colour options: -1 = White, -5 = Silver Grey /Custom Colours  
Fixture ships with 1.5m PowerCon to bare ends power input lead and soft focus diffuser in gobo holder.

**Please note: Lens tubes to be ordered separately**  
**For Studio HD version - see separate datasheet**



## SPECIFICATIONS

## GENERAL

- 60 LED colour mixing profile spotlight fixture
- IP20 rated for dry location use
- CE compliant
- Power and DMX in/through connections for easy setup
- User-friendly control interface with multiple modes and fixture settings

## PHYSICAL

- Rugged die-cast all-metal housing
- Available in black, white, silver grey, custom colours by request
- Positive locking double-clutch yoke
- Slot for B-sizeglass, stainless steel or film gobo patterns and Soft Focus Diffuser media
- Wide accessory slot with sliding cover for motorised effect devices, A-size gobos or optional drop-in iris

## ELECTRICAL

- 100VAC to 240VAC 50/60 Hz universal power input
- Power factor 0.97
- Max. consumption (see table on page three)
- Neutrik power in and through connections
- Up to 9 fixtures may be linked via power in/thru connectors per 15A circuit
- Requires power supply from a non-dim source

## LED\*

- 50,000 hour LED life (50,000 hours to 70% intensity)
- 60 Luxeon® Rebel 2.5W LED emitters

\*See additional LED notes on page three

## COLOUR

- Exclusive x7 Color System™ seven-colour LED array
- Broad-spectrum colour interacts seamlessly with conventional sources
- Beautifully illuminates skin tones and other objects for natural appearance and high colour rendering
- Exclusive optional red-shift option emulates tungsten dimming performance

## OPTICAL

- Available with Lustr+, Tungsten or Daylight LED arrays
- Use the included soft-focus diffuser for creating washes or soft light
- Best performance using ETC's EDLT lens tubes
- Can use all ETC Source Four Interchangeable lens tubes: 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles as well as 19°, 26°, 36°, and 50°\* EDLT lenses

\*For best performance use the new LED-specific 50° barrel

## CONTROL

- DMX512 In and Through via five-pin XLR connectors
- Multiple control options including RGB, strobe, and console-free Master/Slave mode
- See DMX Control Table for additional information
- 15-bit virtual dimming engine provides smooth, high quality theatrical fades and minimal colour shift during dimming
- RDM functionality for address and setting changes

## THERMAL

- Ambient operating temperature -20° to 40°C
- Active electronic thermal management for droop-free operation
- Quiet fan cooling
- Fixture is designed for continuous operation up to 40°C ambient temperature and requires free flow of air around fixture housing

## ADDITIONAL ORDERING INFORMATION

## PHOTOMETRICS

Photometrics tables for all Source Four LED/Lens Tube combinations can be found in the document: *Source Four LED Photometrics Guide* available for download from [www.etcconnect.com](http://www.etcconnect.com)

## Power Input Cables

PART NO.	DESCRIPTION
7401B7008	1.5m PowerCon™ to bare-end power input cable 3x1mm2 (Spare)
The above power input lead ships standard with each fixture.	

## Power Thru Jumper cables

Jumpers connect to fixture's thru connector to provide link to successive fixtures

PART NO.	DESCRIPTION
7410K1101	1m PowerCon™ to bare-end power thru cable 3x1mm2
7410K1102	1m PowerCon™ to PowerCon™ fixture to fixture jumper cable 3x1mm2
7410K1103	2m PowerCon™ to PowerCon™ fixture to fixture jumper cable 3x1mm2
7410K1104	5m PowerCon™ to PowerCon™ fixture to fixture jumper cable 3x1mm2
7410K1105	1m fixture to fixture twin jumper cable with both power and DMX connectors
7410K1106	2m fixture to fixture twin jumper cable with both power and DMX connectors
7410K1107	5m fixture to fixture twin jumper cable with both power and DMX connectors

## Diffusers

MODEL	DESCRIPTION
7460A4019	S4 LED - Soft Focus Diffuser Media (Spare)
7460K1006	S4 LED - Soft Focus Diffuser Permanent Installation Kit (magnets + diffuser)
7460K1001	S4 LED - Smooth Wash Diffuser Media for use in 159mm Colour Frames (19-26-36-50 Lens Tubes)
7460K1002	S4 LED - Smooth Wash Diffuser Media for use in 190mm Colour Frames (14-70-90-Zoom Lens Tubes)
7460K1003	S4 LED - Smooth Wash Diffuser Media for use in 305mm Colour Frames (10° Lens Tube)
7460K1004	S4 LED - Smooth Wash Diffuser Media for use in 356mm Colour Frames (5° Lens Tube)

The Soft Focus Diffuser delivers beautiful homogenised light when not in sharp focus. Also, use in combination with gobo patterns for dappled and soft edge projections.

The Smooth Wash Diffuser is used when extra-smooth blending of multiple Source Four LED fixtures is required. The smooth wash diffuser is placed into the gel frame slot of the lens tube.

## Profile Spotlight Series

## RECOMMENDED LENSING OPTIONS

(Lens Tubes sold separately)

## Fixed Field Lens Tube Assemblies

PART NO.	DESCRIPTION
7460A2008	LED specific 50° EDLT Lens Tube, Black
7460A2008-1	LED specific 50° EDLT Lens Tube, White
7060A2048	36° EDLT Lens Tube, Black
7060A2048-1	36° EDLT Lens Tube, White
7060A2047	26° EDLT Lens Tube, Black
7060A2047-1	26° EDLT Lens Tube, White
7060A2046	19° EDLT Lens Tube, Black
7060A2046-1	19° EDLT Lens Tube, White
7060A2052-K	90° Lens Tube, Black
7060A2052-K1	90° Lens Tube, White
7060A2051-K	70° Lens Tube, Black
7060A2051-K1	70° Lens Tube, White
7060A2050-K	14° Lens Tube, Black
7060A2050-K1	14° Lens Tube, White
7060A2001-K	10° Lens Tube, Black
7060A2001-K1	10° Lens Tube, White
7060A2000-K	5° Lens Tube, Black
7060A2000-K1	5° Lens Tube, White

## Zoom Lens Tube Assemblies

(Use with light engine only models)

PART NO.	DESCRIPTION
7060A2030-K	15°-30° Zoom Lens Tube w. Shutter barrel, Black
7060A2030-K1	15°-30° Zoom Lens Tube w. Shutter barrel, White
7060A2032-K	25°-50° Zoom Lens Tube w. Shutter barrel, Black
7060A2032-K1	25°-50° Zoom Lens Tube w. Shutter barrel, White

## Asymmetric CYC Adapter

(Use with light engine only models)

PART NO.	DESCRIPTION
7060A2011	Source Four LED CYC Lens Tube, Black

## Power Consumption at Full Capacity

MODEL	VOLTAGE (V)	CURRENT (A)	MAX POWER WATTS
S4 LED Lustr+™	230	.591	135.9
S4 LED Daylight™	230	.682	156.9
S4 LED Tungsten™	230	.677	155.7

## ADDITIONAL ORDERING INFORMATION

## Accessories

PART NO.	DESCRIPTION
7060A1012	S4 Drop-in Iris
7060A1075	S4 Size B Metal Gobo Holder
7060A1075-1	S4 Size B Glass Gobo Holder
7060A1074	S4 Size A Metal Gobo Holder (For use in Iris slot)
7060A1074-1	S4 Size A Glass Gobo Holder (For use in Iris slot)

## NOTES ABOUT LED LUMINAIRES

All LED sources experience some lessening of light output and some colour shift over time. LED output will vary with thermal conditions. Based on the LED manufacturer's B50 L70 specification, an ETC LED luminaire will achieve ~70% of its initial output after 50,000 hours of typical usage. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustment to presets, cues or programs.

## CRI AND CQS RATINGS

Source Four LED fixtures were evaluated for CRI and CQS performance using measured output spectrum and optimised mix solutions for best spectral match to black body sources at 3200K and 5600K.

## PHOTOMETRY

The Source Four LED Photometry Guide and complete IES photometry data files may be downloaded from the ETC website. Go to: [www.etcconnect.com](http://www.etcconnect.com)

Source Four LED fixtures were evaluated for CRI and CQS

MODEL	CRI	CQS	Colour Fidelity	Duv
S4 LED Lustr+ Reg at 3200K	84	87	87	0
S4 LED Lustr+ Reg at 5600K	92	92	92	0
S4 LED Daylight at 5600K	71	70	69	0.001
S4 LED Tungsten at 3000K	86	86	86	0.001

All Source Four LED luminaire versions provide excellent colour rendering to the eye, particularly at higher colour temperature settings such as 5600K. In most cases the Duv is 0.000. A Duv rating of 0.000 indicates that the colour mix used is exactly on the black body line, with no green or magenta tint.

## Profile Spotlight Series

## CONTROL OPTIONS

User settings on Source Four LED fixtures allow multiple operational modes and settings for either console operation via DMX protocol or stand-alone operation. The expanded LCD display provides easy navigation to all possible settings and options. Some of the setting options are:

- Multiple DMX choices ranging from a simple RGB profile – which effectively controls all seven LED colours via three channels – to nine-channel ‘direct’ colour and intensity control
- Multiple dimming curve options
- Preset colours and sequences for stand-alone (no console required) operation
- White point selection – white light and colour behavior based on a specific colour temperature white light, i.e. 3200K, 5600K, etc
- Loss of data behavior options – instant off, hold last look for two minutes, etc
- Output modes – three output options that offer the user a choice between maximum output and maximum consistency

See the user manual for a complete explanation of all of the control settings and options for the Source Four LED.

## Quick Setups

To assist in managing the numerous control and fixture behavior choices, five combinations of operational settings are available to quickly get started. These settings are specifically created for different applications and are easily accessible at the fixture display. Each setting can then be modified as required to take advantage of all of the possible control features.

Setting Title	Profile	Description	Typical Features*
General	Direct	Factory Default: For general purpose use including interior architectural applications	<ul style="list-style-type: none"> <li>• Standard dimming curve</li> <li>• Regulated output for colour consistency</li> </ul>
Stage	HSI Plus 7 Enabled	Theatrical lighting: Duplicates the colour and dimming behavior of tungsten stage lighting fixtures	<ul style="list-style-type: none"> <li>• Incandescent dimming curve</li> <li>• Regulated output for colour consistency</li> <li>• 3200K white point setting</li> </ul>
XT Arch	HSI	Exterior architectural lighting: Provides a high degree of colour consistency in high ambient temperature environments	<ul style="list-style-type: none"> <li>• Standard dimming curve</li> <li>• Protected output</li> <li>• 3200 white point setting</li> </ul>
High Impact	RGB	Event lighting: Enables quickest response, simple RGB control and strobe channel for maximum effect usage	<ul style="list-style-type: none"> <li>• Quick dimming curve</li> <li>• Boost mode for maximum intensity</li> <li>• 5600K white point setting</li> </ul>
Studio	Studio	Studio Factory Default: Enables three parameter control of white light (intensity, white point, and tint) via DMX from console or from fixture display – no console required	<ul style="list-style-type: none"> <li>• Linear dimming curve</li> <li>• Regulated output mode for colour consistency</li> </ul>

\*See user manual for complete list of features for each Quick Setup

## CONTROL OPTIONS

## DMX Input Channel Profiles

DMX Profile	DMX Channels	Channel Assignments	Notes
Direct	10	1 – Red 2 – White 3 – Amber 4 – Green 5 – Cyan 6 – Blue 7 – Indigo 8 – Intensity 9 – Strobe 10 – Fan Control	Direct control of each individual colour with a separate master intensity channel. Colour calibration of LEDs is not active in this mode. The ten-channel profile will produce the highest quality colour cross-fades.
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control	High resolution hue (two-channels), saturation, and intensity control. HSI mode will produce arbitrary colour cross-fades around the colour space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – Colour Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a colour point channel to adjust the colour temperature of the fixture in both white light and colour. Colour cross-fade performance is the same as with HSI mode.
RGB	6 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe 6 – Fan Control	Effectively addresses all seven colours via three channels of control. RGB profile will produce medium quality colour cross-fades
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Colour Point (CCT) 3 – Tint 4 – n/a 5 – Strobe 6 – Fan Control	Controls fixture as a white light unit. If no DMX, i.e. console input, is present, the fixture can be adjusted for these three parameters on the U/I at the back of the unit.
Additional profile options			
Plus 7		Seven additional colour control channels are available in RGB, HSI, and HSIC input profile settings. For example HSI with ‘Plus 7’ enabled becomes a 15-channel profile:	
		1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – n/a 8 – Plus7 Control on/off 9 – Red 10 – White 11 – Amber 12 – Green 13 – Cyan 14 – Blue 15 – Indigo	The desired colour and intensity is achieved by using the HSI or RGB channels  Placing channel seven at a value over 51% gives the fixture a 15-channel profile.  Channels 9-15 represent the native colours of the fixture and allow the operator to adjust individual colour channels to fine tune the colour output.
Strobe		Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

## CONTROL OPTIONS

## Studio Daylight and Studio Tungsten (only)

## Quick Set-Ups

Setting Title	Profile	Description	Typical Features
Studio	Studio	Enables control of intensity from luminaire UI; no console required	<ul style="list-style-type: none"> <li>Linear dimming curve</li> <li>Regulated output for intensity stability</li> </ul>
Single Channel	Direct	For general purpose architectural use	<ul style="list-style-type: none"> <li>Standard dimming curve</li> <li>Regulated output for colour consistency</li> </ul>
Stage	Direct	Matches conventional luminaire performance	<ul style="list-style-type: none"> <li>Incandescent dimming curve</li> <li>Regulated output</li> </ul>

## DMX Input Channel Profiles

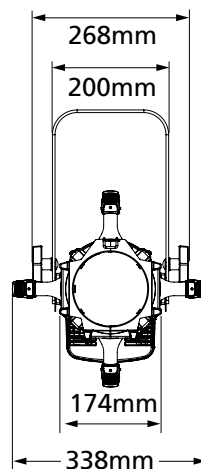
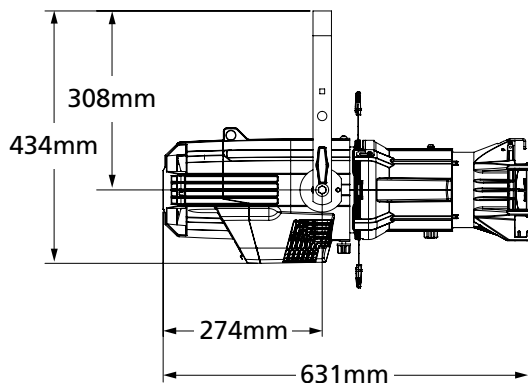
DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	3	1 – Intensity 2 – Strobe 3 – Fan Control	Control of parameters is also enabled from the luminaire's user interface. No console required.
Direct	3	1 – Intensity 2 – Strobe 3 – Fan Control	

## PHYSICAL

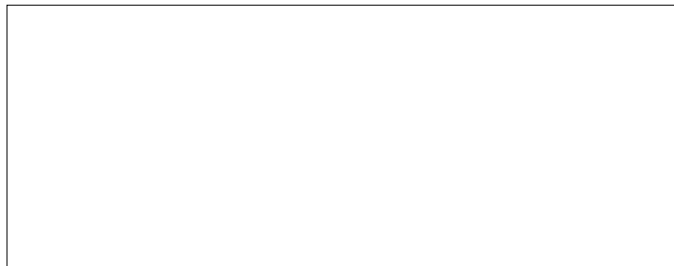
## Source Four LED Weights and Dimensions

	WEIGHT*	SHIPPING WEIGHT
	kg	kg
With Shutter Barrel	8.3	12.7
Without Shutter Barrel	6.5	10.4

\* Does not include mounting hardware or lens tube



## AVAILABLE FROM



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U.S. and international patents pending.